## IN THE SPECIFICATION

Please replace the paragraph at line 4, page 19, with the following paragraph:

$$Y(o) = \left[ \frac{(128 \times 2^{12}) + 1225 \times R(o) + 2404 \times G(o) + 467 \times B(o) + 2^{11}}{2^{12}} \right] - 128$$

$$Cb(o) = \left[ \frac{(128 \times 2^{12}) - 691 \times R(o) - 1357 \times G(o) + 2^{11} \times B(o) + 2^{11}}{2^{12}} \right] - 128$$

$$Cr(o) = \left[ \frac{(128 \times 2^{12}) + 2^{11} \times R(o) - 1715 \times G(o) - 333 \times B(o) + 2^{11}}{2^{12}} \right] - 128$$

Please replace the paragraph at line 9, page 19, with the following paragraph:

$$R(o) = \left[ \frac{(128 \times 2^{12}) + 2^{12} \times Y(o) + 5743 \times Cr(o) + 2^{11}}{2^{12}} \right] - 128$$

$$G(o) = \left[ \frac{(128 \times 2^{12}) + 2^{12} \times Y(o) - 1410 \times Cb(o) - 2925 \times Cr(o) + 2^{11}}{2^{12}} \right] - 128$$

$$B(o) = \left[ \frac{(128 \times 2^{12}) + 2^{12} \times Y(o) + 7258 \times Cb(o) + 2^{11}}{2^{12}} \right] - 128$$

Please replace the paragraph at line 1, page 20, with the following paragraph:

$$Y(o) = (((128\langle\langle 12 \rangle + 1225 \times R(o) + 2404 \times G(o) + 467 \times B(o) + (1\langle\langle 11 \rangle)\rangle\rangle12) - 128;$$

$$Cb(o) = (((128\langle\langle 12 \rangle - 691 \times R(o) - 1357 \times G(o) + 2048 \times B(o) + (1\langle\langle 11 \rangle)\rangle\rangle12) - 128;$$

$$Cr(o) = (((128\langle\langle 12 \rangle + 2048 \times R(o) - 1715 \times G(o) - 333 \times B(o) + (1\langle\langle 11 \rangle)\rangle\rangle12) - 128;$$

Please replace the paragraph at line 4, page 43, with the following paragraph:

$$Y(o) = \left[ \frac{2 \times (x_{M} \times R(o) + (D - x_{M} - y_{M}) \times G(o) + y_{M} \times B(o)) + D}{2 \times D} \right]$$

$$Cb(o) = \left[ \frac{MAX_{RGB} + 1}{2} \times 2 \times (D - y_{M}) - x_{M} \times R(o) - (D - x_{M} - y_{M}) \times G(o) + (D - y_{M}) \times B(o) + 1}{2 \times (D - y_{M})} \right]$$

$$Cr(o) = \left[ \frac{\frac{MAX_{RGB} + 1}{2}}{2} \right] \times 2 \times (D - x_{M}) + (D - x_{M}) \times (R(o) + 1) - (D - x_{M} - y_{M}) \times G(o) - y_{M} \times B(o)}{2 \times (D - x_{M})} \right]$$

$$- \left[ \frac{MAX_{RGB} + 1}{2} \right]$$

Please replace the paragraph at line 1, page 45, with the following paragraph:

```
iYORS=((MAX_KAICHO+1)/2*1000 + 299*iRORS+587*iGORS+114*iBORS
      + 500)/(1000) - (MAX KAICHO+1)/2
      ≒(
            ((MAX KAICHO+1)/2 <<br/>bitSHIFT)
            + ((299<<bitSHIFT)+500)/1000*iRORS
            + ((587<<br/>bitSHIFT)+500)/1000*iGORS
            + ((114<<bitSHIFT)+500)/1000*iBORS
            + (1 << (bitSHIFT-l))
          ) >> bitSHIFT
      ) -(MAX KAICHO+1)/2;
iCbRS = ((MAX KAICHO+1)/2*2*886-299*iRORS-587*iGORS+(886))
      *(iBORS+1))/(2*886) - (MAX KAICHO+1)/2
      ≒.(
           (
            ((MAX KAICHO+1)/2 << bitSHIFT)
            - ((299<<bitSHIFT)+886)/(2*886)*iRORS
            - ((587<<br/>bitSHIFT)+886)/(2*886)*iGORS
            + ((886<<br/>bitSHIFT)+886)/(2*886)*iBORS
            + (1 << (bitSHIFT-1))
            ) >> bitSHIFT
           ) - (MAX KAICHO+1)/2;
iCrRS=((MAX KAICHO+1)/2*2*701-114*iBORS-587*iGORS+(701)
      *(iRORS+1))/(2*701) - (MAX KAICHO+1)/2
      ≒.(
            ((MAX KAICHO+1)/2 << bitSHIFT)
            + ((701<<br/>bitSHIFT)+701)/(2*701)*iRORS
            - ((587<<br/>bitSHIFT)+701)/(2*701)*iGORS
            - ((114<<bitSHIFT)+701)/(2*701)*iBORS
            + (1 << (bitSHIFT-1))
            ) >> bitSHIFT
      ) - (MAX KAICHO+1)/2;
```

Please replace line 13, page 46, with the following line:

Please replace the paragraph at line 18, page 46, with the following paragraph:

$$Y(o) = \left[ \frac{(128 \times 2^{12}) + 1225 \times R(o) + 2404 \times G(o) + 467 \times B(o) + 2^{11}}{2^{12}} \right] - 128$$

$$Cb(o) = \left[ \frac{(128 \times 2^{12}) - 691 \times R(o) - 1357 \times G(o) + 2^{11} \times B(o) + 2^{11}}{2^{12}} \right] - 128$$

$$Cr(o) = \left[ \frac{(128 \times 2^{12}) + 2^{11} \times R(o) - 1715 \times G(o) - 333 \times B(o) + 2^{11}}{2^{12}} \right] - 128$$

Please replace line 10, page 51, with the following line:

Please replace the paragraph at line 17, page 51, with the following paragraph:

$$R(o) = \left[ \frac{(128 \times 2^{12}) + 2^{12} \times Y(o) + 5743 \times Cr(o) + 2^{11}}{2^{12}} \right] - 128$$

$$G(o) = \left[ \frac{(128 \times 2^{12}) + 2^{12} \times Y(o) - 1410 \times Cb(o) + 2925 \times Cr(o) + 2^{11}}{2^{12}} \right] - 128$$

$$B(o) = \left[ \frac{(128 \times 2^{12}) + 2^{12} \times Y(o) + 7258 \times Cb(o) + 2^{11}}{2^{12}} \right] - 128$$

Please replace lines 3-8, page 63, with the following lines:

R < 0.11,783 cases/(256x256x256) colors = 0.07%

 $R \Leftrightarrow 255:11,883 \text{ cases/} (256x256x256) \text{ colors} = 0.07\%$ 

G < 0: 6,171 cases/ (256x256x256) colors = 0.04%

 $G \Leftrightarrow 255: 6,117 \text{ cases/} (256x256x256) \text{ colors} = 0.04\%$ 

B < 0.14,408 cases/(256x256x256) colors = 0.09%

 $B \Leftrightarrow 255:14,529 \text{ cases/ } (256x256x256) \text{ colors} = 0.09\%$ 

Please replace line 15, page 67, with the following line:

 $< \alpha \times (\beta \text{ data+1})/\beta - 0.5$